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EXHAUST EMISSION CONTROL DEVICE OF INTERNAL COMBUSTION ENGINE

(JP2002332823)

PROBLEM TO BE SOLVED: To discriminate a regenerating timing at all times by relatively accurately estimating an accumulating particulate amount in a particulate filter for oxidizing the particulates collected.

SOLUTION: This exhaust emission control device comprises a first estimation means for estimating the amount of particulates accumulating on the particulate filter as a first estimated accumulating particulate amount PM, by integrating the accumulating particulate fluctuation amount per unit time which is calculated, based on an estimated discharge particulate amount discharged from the inside of a cylinder and an estimated oxidized and removed particulate amount on the particulate filter, and a second estimating means (step 205 and step 206) for estimating the amount of particulates accumulating on the particulate filter as a second estimated accumulating particulate amount PM', based on a fresh air amount taken in an engine intake system during a specific engine operation state. The accumulating particulate fluctuation amount per unit time is corrected, based on the second estimated accumulating particulate amount (step 209 and step 210).

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